

CLAIMS

What is claimed is:

1. A flashlight lamp circuit with automatic light adjustment, comprising:
 - a flashlight lamp charging circuit, controlling charging of a main capacitor, and
 - 5 determining start and stop of charging according to a voltage level of the main capacitor so that the main capacitor is in a workable status;
 - a flashlight activation unit, receiving a flashlight activation signal from a user when the main capacitor is in a workable status, and executing flashlight activation according to the flashlight activation signal;
- 10 a flashlight lamp, emitting a flashlight on a photographed object according to the flashlight activation signal;
- a light sensor, receiving and converting a light from the photographed object into a first electric signal;
- 15 an integral circuit, receiving the first electric signal from the light sensor and outputting a second electric signal proportional to the amount of flashlight, wherein the integral circuit includes a light adjusting resistor for adjusting the resistance and output of the integral circuit; and
- a flashlight control unit, receiving the second electric signal from the integral circuit, wherein the flashlight control unit extinguishes the flashlight lamp when an amount of light
- 20 corresponding to the level of the second electric signal reaches a required light exposure.

2. The circuit according to claim 1, wherein a range of the workable status is between 270V~300V.
3. The circuit according to claim 1, wherein the flashlight activation unit is a DC

converter.

4. The circuit according to claim 3, wherein the DC converter includes a Darlington circuit, and an electric current of the Darlington circuit controls the capacitor charging speed.

5 5. The circuit according to claim 4, wherein the electric current of the Darlington circuit is controlled by means of a resistor.

6. The circuit according to claim 1, wherein the flashlight activation unit further includes a fast switch diode.